Page 2

The following listing of claims replaces all prior versions and listings of the claims in relation to the present patent application.

## Listing of the Claims

Claims 1-13. (canceled).

14. (currently amended) A rail system for transmitting power and data signals comprising:

an insulative support;

first and second power conductors supported lengthwise on the support via an elongate support edge and configured to conduct electrical power; and

first and second data conductors supported lengthwise on the support via an elongate support edge and configured to conduct electrical power; and, wherein the data conductors are and disposed between the power conductors and configured to transmit data signals;

wherein each of the power and data conductors presents a respective elongate connection edge opposite the respective support edge, the connection edges being generally aligned for receiving respective connector elements.

- 15. (original) The system of claim 14, wherein the power conductors at least partially shield the data conductors from electromagnetic interference.
- 16. (original) The system of claim 14, further comprising at least one capacitor coupled across the power conductors.

- 17. (original) The system of claim 14, further comprising a second set of power conductors supported lengthwise on the support at cross sectional outermost positions on either side of the first and second power conductors.
- 18. (original) The system of claim 14, wherein the conductors are uninsulated conductive rails.
- 19. (original) The system of claim 14, wherein the first and second data conductors are spaced from one another by a first, substantially constant predetermined distance.
- 20. (original) The system of claim 19, wherein the first and second power conductors are spaced from respective data conductors by a second, substantially constant predetermined distance.
- 21. (original) The system of claim 20, wherein the first predetermined distance is equal to the second predetermined distance.
- 22. (original) A rail system for transmitting power and data signals comprising:

an insulative support;

a first set of power conductors supported lengthwise on the support and configured to conduct electrical power;

a second set of power conductors supported lengthwise on the support and configured to conduct electrical power; and

first and second data conductors supported lengthwise on the support and configured to transmit data signals.

- 23. (original) The system of claim 22, wherein if the first set of power conductors are identified as A and B, the second set of power conductors are identified as C and D, and the data conductors are identified as E and F, the conductors are disposed cross-sectionally on the support in the order A, C, E, F, D, B.
- 24. (original) The system of claim 23, wherein conductors A and B are configured to transmit ac power.
- 25. (original) The system of claim 24, wherein conductors C and D are configured to transmit dc power.
- 26. (original) The system of claim 22, wherein if the first set of power conductors are identified as A and B, the second set of power conductors are identified as C and D, and the data conductors are identified as E and F, the conductors are disposed cross sectionally on the support in the order A, E, C, D, F, B.
- 27. (original) The system of claim 26, wherein conductors A and B are configured to transmit ac power.
- 28. (original) The system of claim 26, wherein conductors C and D are configured to transmit dc power.
- 29. (original) The system of claim 22, further comprising a first capacitor coupled across the first set of power conductors.
- 30. (original) The system of claim 29, further comprising a second capacitor coupled across the second set of power conductors.

- 31. (original) The system of claim 22, wherein the conductors are disposed at substantially equal spacing across the support.
- 32. (original) An open rail system for transmitting power and data signals comprising:

an insulative support;

first and second data conductors supported lengthwise on the support and configured to transmit data signals;

a first set of power conductors supported lengthwise on the support at positions flanking the data conductors and configured to conduct electrical power;

a second set of power conductors supported lengthwise on the support at positions flanking respective power conductors of the first set and configured to conduct electrical power; and

a capacitor coupled across the first set of power conductors.

- 33. (original) The system of claim 32, further comprising a second capacitor coupled across the second set of power conductors.
- 34. (original) The system of claim 32, wherein the first set of power conductors transmits dc power.
- 35. (original) The system of claim 34, wherein the second set of power conductors transmits ac power.
- 36. (original) The system of claim 32, wherein the first set of power conductors transmits ac power.
- 37. (original) The system of claim 36, wherein the second set of power conductors transmits dc power.

38. (new) A rail system, comprising:

an insulative support;

first and second rail power conductors mounted to the insulative support;

first and second rail data conductors mounted to the insulative support, wherein the data conductors and the power conductors are substantially parallel to one another;

wherein each the rail data conductors and the rail power conductors is mechanically engageable with a plurality of connectors at a plurality of locations, each connector being connected to a different electrical component.

- 39. (new) The rail system as recited in claim 38, comprising at least one capacitor coupled across the power conductors.
- 40. (new) The rail system as recited in claim 38, wherein if the first and second data conductors are disposed between the first and second power conductors.
- 41. (new) The rail system as recited in claim 38, wherein the rail power conductors and the rail data conductors extend over at least three-fourths of the length of the insulative support.